Product: **1120A**

Inst, 1 Pr #18 Str BC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC 150V NPLF 90C Dry/Wet

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Product Description

UL Instrumentation, 1 Pair 18AWG (7x26) Bare Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Dry/Wet SUN RES DIR BUR

Technical Specifications

**Product Overview**

| Suitable Applications: | Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners |

**Construction Details**

**Conductor**

<table>
<thead>
<tr>
<th>Element</th>
<th>Number of Element</th>
<th>AWG</th>
<th>Stranding</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pair(s)</td>
<td>1</td>
<td>18</td>
<td>7x26 BC</td>
<td>BC - Bare Copper</td>
</tr>
</tbody>
</table>

**Insulation**

<table>
<thead>
<tr>
<th>Element</th>
<th>Material</th>
<th>Thickness [in]</th>
<th>Color Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pair(s)</td>
<td>PVC/Nylon - Polyvinyl Chloride/Nylon Skin</td>
<td>0.021</td>
<td>Black, Red</td>
</tr>
</tbody>
</table>

**Outer Shield Material**

<table>
<thead>
<tr>
<th>Type</th>
<th>Material</th>
<th>Coverage</th>
<th>Drainwire Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tape</td>
<td>Alum / Poly</td>
<td>100%</td>
<td>20 AWG (7x28) TC</td>
</tr>
</tbody>
</table>

**Outer Jacket Material**

<table>
<thead>
<tr>
<th>Material</th>
<th>Thickness</th>
<th>Diameter</th>
<th>Ripcord</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC - Polyvinyl Chloride</td>
<td>0.048 in</td>
<td>0.278 in</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Electrical Characteristics**

**Electricals**

<table>
<thead>
<tr>
<th>Element</th>
<th>Nom. Conductor DCR</th>
<th>Max. Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pair(s)</td>
<td>5.86 Ohm/1000ft</td>
<td>6 Amps per Conductor at 30°C</td>
</tr>
</tbody>
</table>

**Voltage**

<table>
<thead>
<tr>
<th>UL Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 V (TC), 150 V (NPLF)</td>
</tr>
</tbody>
</table>

**Mechanical Characteristics**

**Temperature**

<table>
<thead>
<tr>
<th>UL Rating</th>
<th>Operating</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°C Dry, 90°C Wet</td>
<td>-30°C to +90°C</td>
</tr>
</tbody>
</table>

**Bend Radius**

<table>
<thead>
<tr>
<th>Stationary Min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.8 in</td>
</tr>
</tbody>
</table>
### Standards and Compliance

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Suitability</td>
<td>Sunlight Resistance, Burial</td>
</tr>
<tr>
<td>Flammability / Fire Resistance</td>
<td>UL1685 UL Loading, FT4, 1202</td>
</tr>
<tr>
<td>NEC / UL Compliance</td>
<td>NPLF, TC</td>
</tr>
<tr>
<td>Other Standard Compliance(s)</td>
<td>ICEA S-73-532, S-61-402</td>
</tr>
</tbody>
</table>

### History

| Update and Revision: | Revision Number: 0.339 Revision Date: 06-09-2020 |

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